Nikon
Ni
F100
Professional

In your hands the

For generations, we've designed Nikon F Series cameras to achieve maximum performance and meet the needs of the world's greatest photographers. But such great cameras don't pass the test of professionalism until pros actually hold them in their hands and put them through the rigors of professional photography. Day in and day out.

That's why we're so proud to present the newly designed Nikon F100 — an exceptional camera evolved from our long experience in providing more of what pros need to realize their photographic aspirations. With innovative built-in Nikon F System technology more sophisticated than ever, the F100 makes precise, responsive Dynamic Autofocus so fast that images literally pop into focus. The camera also works perfectly with every AF Nikkor lens, AF-S Nikkor, AI-S Nikkor and more.

The F100 features Nikon's 3D Matrix Meter, for exposure control that has been developed through more than a generation of innovation. There's Spot and

F100 comes to life.

Center-Weighted Metering, too. And Nikon's Automatic Balanced Fill-Flash System is uncanny at showing up that touch of extra light for perfect exposures and cover page pictures.

For extra dependability, the chassis, top, bottom and front covers, and selected parts are constructed of rugged yet lightweight magnesium alloy metal.

Twenty-two Custom Settings and accessories galore also help to make this camera a clear choice in 35mm systems among professionals.

By expanding choices and meeting needs for a smaller, lighter camera, all without sacrificing ruggedness, the F100 joins the Nikon F5 as a camera of choice among the world's best. In short, it's one tough camera destined to take whatever kinds of the world's greatest pictures you want to take. That makes it truly worthy of the name **Nikon F100 — Professional.**

"When your subject is moving this fast and it's difficult to anticipate the direction of its movement, you've got to react quickly and leave nothing to chance. Here, I knew I could rely completely on the Focus Tracking of the F100 to make sure that the speed skater would come out sharp and clear in every shot in the sequence, even for the final close-up."

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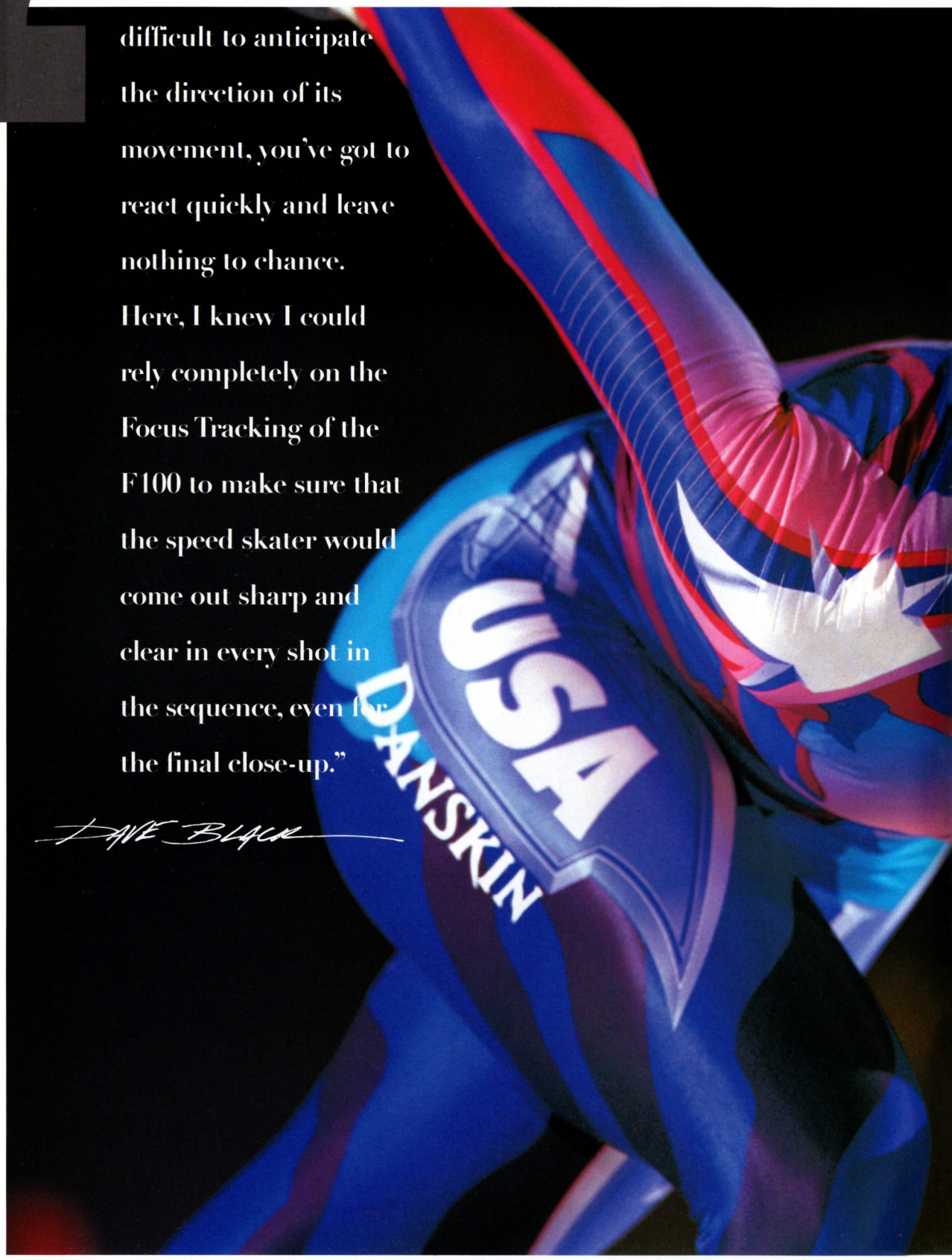
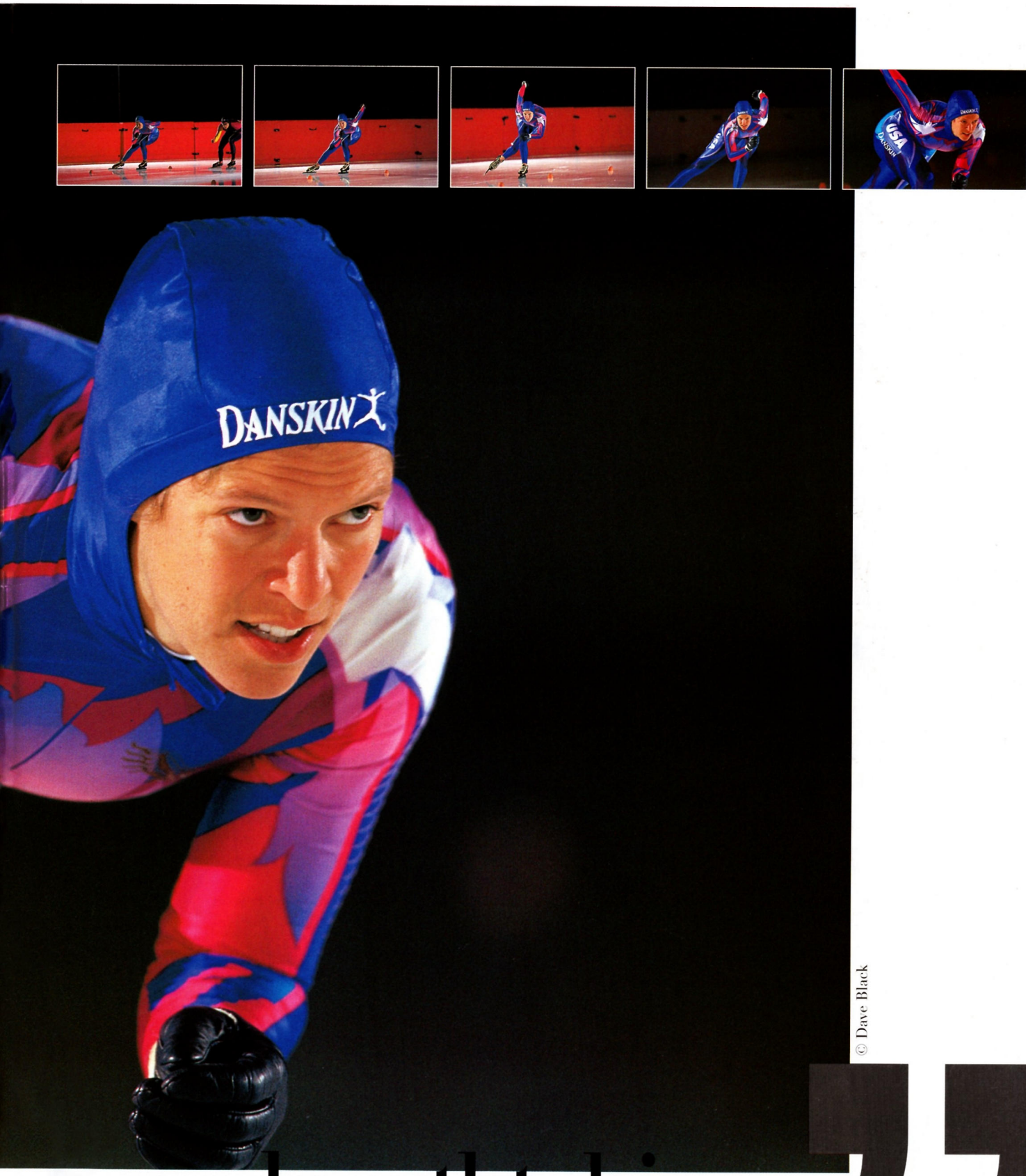


F100 autofocus perfo



© Dave Black

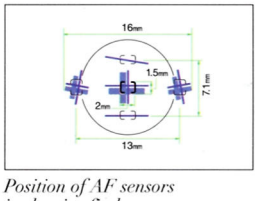
rmance is breathtaking.

The Multi-CAM1300 sensor complements your technique.

Dynamic Autofocus

Dynamic Autofocus has proven its mettle in countless situations, because Nikon designed it knowing that professionals need flexible, creative control to make great pictures. Features like Wide-Area coverage, a peerless Cross-Type-Sensor and consistent performance using all AF Nikkor optics distinguish F100 Dynamic Autofocus from all other AF systems.

Because Dynamic Autofocus works equally well with every AF Nikkor lens, you'll never have to wonder how your AF System will respond. Focus Tracking with Lock-On™ and Overlap Servo operation keep pictures looking crisp and sharp. And there's more to give you exactly what you need and want.

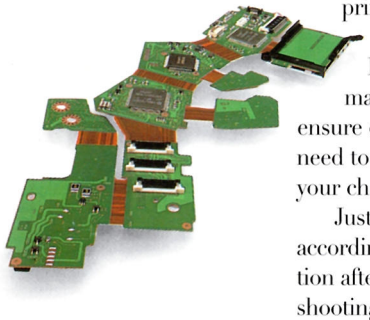


Position of AF sensors in the viewfinder

Multi-CAM1300 autofocus sensor module

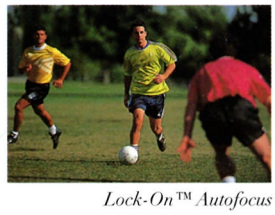
The heart of the F100's AF system is the Multi-CAM1300 AF module. Creatively aligned Wide-Cross-Array sensor design makes autofocus operation fast, whether you hold the F100 horizontally or vertically. Naturally, it's important that you get consistent performance with every AF Nikkor lens.

For creative composition, especially for action photography, you can choose any of the F100's AF Sensors as a primary sensor, so you're never locked into using just the center sensor for a first AF reading. The F100 lets you pick up focus of moving subjects, no matter what direction they're coming from. And, to ensure quick response to changing conditions, there's no need to stop and make a custom setting in order to switch your choice of sensor.



Just tap the focua area selector for instant switching according to new subject movement. We created this function after analyzing how you take pictures, considering that shooting fast-moving subjects requires fast, precise control and your need to anticipate the action. With the F100, even the blink of an eye won't interfere with shooting.

Multi-CAM1300 with Nikon's exclusive overlap servo mechanism maximizes autofocus speed and accuracy. Nikon's AF system detects a subject and drives lens focusing, not in separate steps, but simultaneously, for superior speed and smoothness of operation. As a result, lens focusing is constantly being adjusted precisely in accordance with data being supplied nonstop by the camera's computer. Furthermore, the camera can track subjects that are moving erratically at varying speeds and ensures reliably sharp focus, picture after picture. Other AF systems simply can't compete in terms of such performance.



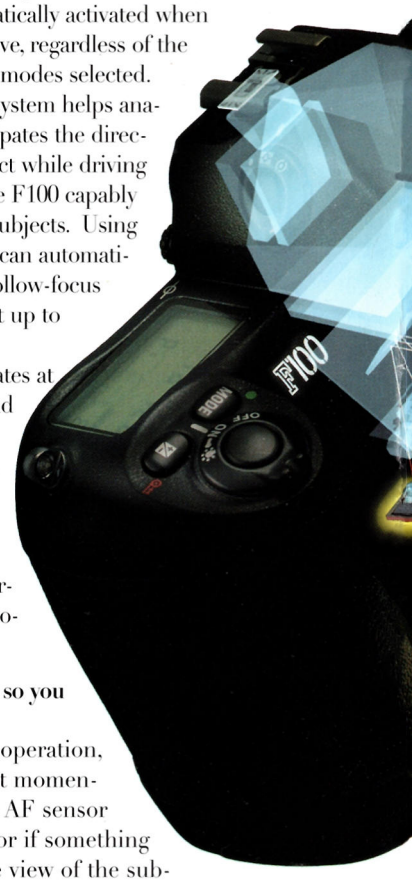
Lock-On™ Autofocus

Unique overlap servo method for fast and accurate operation

Nikon's AF system detects focus and drives the lens simultaneously. As a result, lens focusing is constantly adjusted — even during lens driving — in accordance with the latest focusing and lens movement data. And just like the F5, the F100 drives the lens while monitoring the direction as well as amount of lens drive. This results in extremely precise focusing. It also means that the camera can track subjects that move erratically at various speeds and still ensure sharp focus for every frame. Other AF systems simply can't provide this level of sophistication.

High-speed Focus Tracking

Focus Tracking is automatically activated when your subject starts to move, regardless of the AF area or film advance modes selected. This computer-assisted system helps analyze the speed and anticipates the direction of the moving subject while driving the autofocus lens, so the F100 capably focuses on fast-moving subjects. Using any AF Nikkor lens, you can automatically and continuously follow-focus from long distances right up to extreme closeup.



Focus Tracking operates at up to 5 frames per second with an optional MB-15 Battery Pack. The F100's exposure and autofocus operation is continuously updated by the built-in computer for perfect combinations of exposure and sharpness.

Lock-On™ Autofocus — so you don't miss a shot

During Focus Tracking operation, even if the main subject momentarily wanders off of an AF sensor area in the viewfinder, or if something momentarily blocks the view of the subject, Lock-On™ Autofocus will continue to track it, maintaining sharp focus for subsequent frames. This makes the F100 ideal for quick-moving action.

Choice of autofocus modes

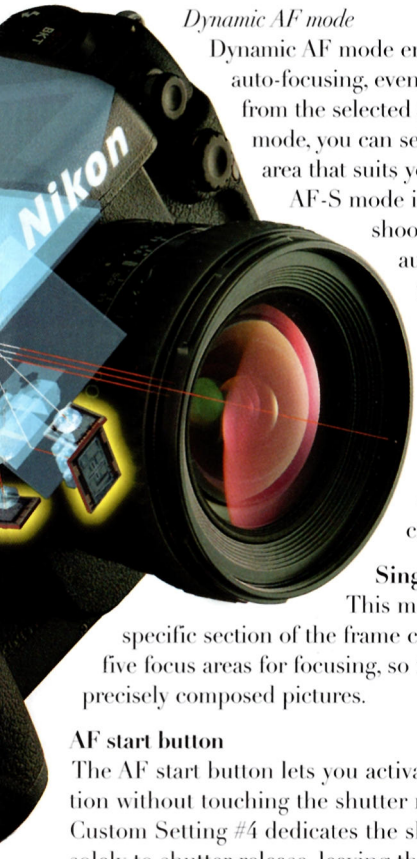
The F100 offers two autofocus modes: Single Servo AF with focus-priority (AF-S) and Continuous Servo AF with release-priority (AF-C). In AF-S mode, the shutter will not release until focus is complete and sharp. With AF-C mode, the shutter will release any time you press the shutter release button.

F100 Multi-CAM1300 AF sensor module
Overlap servo method
Focus Tracking with Lock-On™
Dynamic AF mode

AF Zoom-Nikkor 28-105mm f/3.5-4.5D IF attached to a Nikon F100.

Focus Area Selection

To choose one of the F100's five focus areas, just press one of the arrows of the focus area selector. The chosen focus area is then superimposed on the focusing screen, as indicated on a special red LED-projected display and the top-deck LCD. Quick diagonal shifts from area to area are also possible. A lock lever is provided to prevent inadvertent switching of focus areas. This one-touch operation assures faster and more accurate focus area selection than other multi-area AF systems, and you may change your selection at any moment.



Two AF Area modes

Dynamic AF mode

Dynamic AF mode ensures accurate auto-focusing, even if your subject moves from the selected focus area. With AF-C mode, you can select the priority focus area that suits your composition. AF-S mode is great for candid shooting, as the camera automatically selects the focus area with the closest subject so that you can concentrate on shutter timing. You can also deactivate the closest-subject-priority operation. It's your creative choice.

Single Area AF mode

This mode lets you choose a specific section of the frame covered by one of the five focus areas for focusing, so it's useful for shooting precisely composed pictures.

AF start button

The AF start button lets you activate autofocus operation without touching the shutter release button. Custom Setting #4 dedicates the shutter release button solely to shutter release, leaving the AF start button for AF activation. This feature is ideal for photographers shooting sports and other quick-action situations to concentrate solely on shutter release timing. Add the optional MB-15 Multi-Power High Speed Battery Pack with a second AF Start button and Main-Command Dial for vertical shooting.

AF-S Zoom-Nikkor 80-200mm f/2.8D ED-IF, equipped with a Silent Wave Motor, attached to a Nikon F100.

The selected focus area is superimposed in red on the focusing screen. The brightness of the superimposition automatically adjusts according to the degree of ambient light.

Dynamic AF: Focus stays on the subject even though the subject moves out of the selected area by shifting focus area automatically.

Manual focus with no power consumption

F100 manual focusing is fully mechanical, so operation is smoother and more precise than in electromechanically controlled systems. Also, this mode doesn't cause battery drain. All AF Nikkor lenses are designed for superior manual operation, as well as fast, accurate autofocus.

The F100's versatile Electronic Rangefinder simplifies manual focusing when used with lenses having maximum aperture of f/5.6 or faster — that's all AF Nikkor lenses!

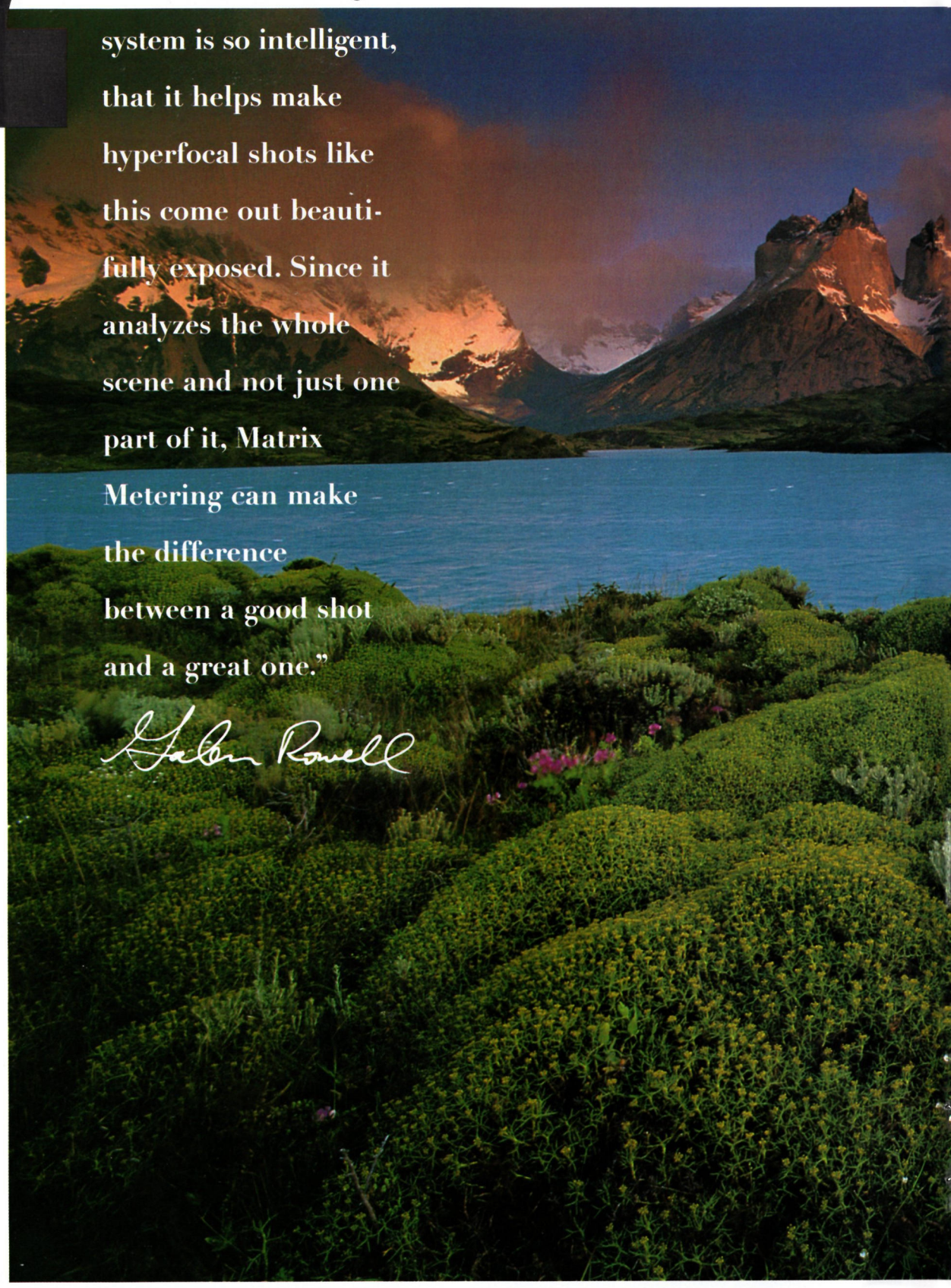
Custom Settings for AF operation (See P. 22 for details)

#4: Activates autofocus from the AF Start buttons only. Lightly pressing the shutter release button fires the camera.

#9: Cancels closest-subject-priority operation when using Dynamic AF mode with AF-S mode. (As featured in the F5.)

#10: Activates closest-subject-priority operation when using Dynamic AF mode with AF-C mode.

Silent Wave Motor



"The Nikon F100's 3D Matrix Metering system is so intelligent, that it helps make hyperfocal shots like this come out beautifully exposed. Since it analyzes the whole scene and not just one part of it, Matrix Metering can make the difference between a good shot and a great one."

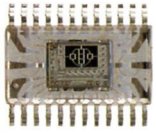
Galen Rowell

The F100's expo

© Galen Rowell

sure control lets you do this.”

3D Matrix Meter provides at least
30,000 reasons to prove how it works so perfectly, pic



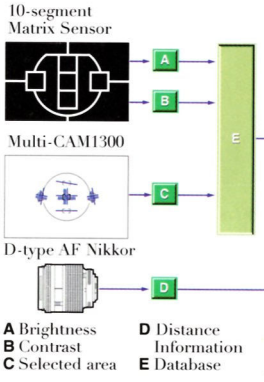
New 10-segment Matrix sensor works with the Multi-CAM1300 AF module to link focus data with exposure metering information.

Superior built-in exposure performance

With every picture, you'll gain proof of the F100's extraordinary 3D Matrix exposure accuracy. Nikon brings decades of expertise and innovation to creating metering and exposure systems that work in harmony. From the 3D Matrix Meter's database of 30,000 actual scenes to flexible exposure modes and custom settings, the F100 offers control and reliability.

3D Matrix Metering

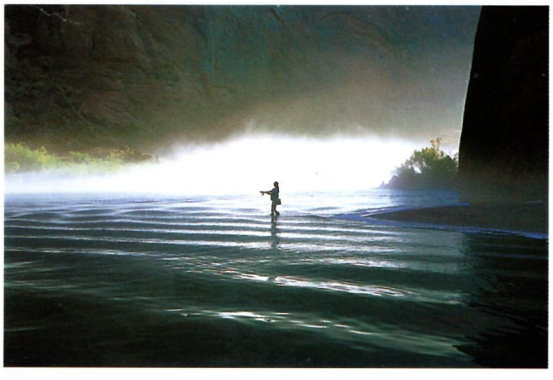
As the inventor of multi-pattern metering, Nikon designed Matrix Metering to read not only brightness but also the "atmosphere" of the scene. It achieves this by analyzing the image in its entirety, not just its smaller focused segments.



A Brightness
B Contrast
C Selected area
D Distance Information
E Database

Optimum Exposure

Nikon's special metering system takes instant advantage of a world of exposure information contained in its database of more than 30,000 actual scenes. Development of the 3D Matrix Meter evolved through a generation of professional picture-making in the field. Using this accumulated data, the F100's 3D Matrix Meter evaluates a complex array of scene conditions including brightness, contrast and selected focus area and distance information. The camera's microcomputer analyzes the data and delivers astonishingly accurate automatic exposure control.



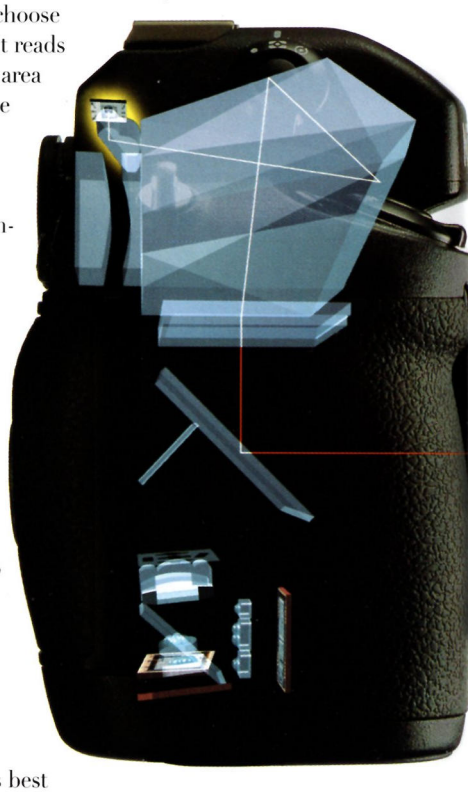
Despite how great manual control can be, situations can change too quickly for manual control to keep up with. That's when the 3D Matrix Meter pays off in letting you get hands-on control to make great pictures in every instance.

Center-Weighted Metering

This meter gives you control in detailing exposure for selected portions of a scene, including classic backlighted scenes. Nearly 75% of the F100 meter's sensitivity is concentrated in the 12mm circle at the center of the viewfinder, with the rest feathered out to the edges.

Spot Metering

For pinpoint precision and when you have sufficient time and experience, choose Spot Metering. It reads a 4mm-diameter area (approx. 1% of the image area). The sensing area also adjusts to correspond to the manually selected focus area for optimal individual control, without requiring selection of a Custom Setting.



Exposure Modes

Programmed Auto Exposure Mode

This mode works best with 3D Matrix Metering and provides the quickest, most comprehensive automatic exposure control option.

To change the shutter speed and aperture combination from the automatically selected values, use Flexible Program. Just turn the Main-Command Dial until the desired shutter speed or aperture value appears in the viewfinder and the LCD panel. This adjustment is maintained as long as the exposure meter is on.

Shutter-Priority Auto Exposure Mode

Access this mode to select shutter speeds manually in 1/3 EV steps — it's great for stopping sports action in its tracks or blurring movement for creative effect. The Nikon F100's microcomputer automatically selects the correct aperture in 1/3 EV increments to match the

ture.after beautiful picture.

selected shutter speed. With Custom Setting #2, the F100 lets you customize camera exposure setting in 1/3, 1/2 or 1 EV steps.

Aperture-Priority Auto Exposure Mode

You can select aperture in 1/3 EV steps using the Sub-Command Dial.

Aperture-Priority Auto Exposure mode is recommended when depth of field is your prime consideration. For shooting portraits or other scenes where you want a shallower depth of field, try larger apertures. For more depth of sharpness, as in scenic photography, use smaller apertures.

Custom Setting # 22 allows you to set the aperture from lenses' aperture rings, convenient for your personal preferance.

Manual Exposure Mode

Manual Exposure Mode provides complete control over exposure. Choose both the shutter speed and aperture using the F100's built-in meters as guides for optimal exposure. Set the shutter speed with the Main-Command Dial and the aperture with the Sub-Command Dial or the lens' aperture ring (with Custom Setting #22). The electronic analog exposure display appears in the viewfinder and the top deck LCD panel. This shows the exposure deviation from the metered value.

AE-L (Auto Exposure Lock)

Press the AE-L/AF-L button and the F100 memorizes the metered exposure value with focus lock. Use AE-L when you want to change the composition or emphasize a specific part of the picture with Center-Weighted or Spot Metering. To use Auto Exposure lock without activating focus lock, use Custom Setting #21.

Multiple Exposure

Set the film advance mode to multiple exposure (▣) to take several exposures on the same frame. Explore your creative options by taking as many shots on a frame as you like. Also, Custom Setting #14 enables continuous multiple exposure.

Exposure Compensation

You can compensate exposure up to ±5 EV in 1/3 EV increments. While pressing the exposure compensation button, rotate the Main-Command Dial to set the desired compensation value — minus values are for underexposure and plus values for overexposure. Custom Setting #13 enables instant exposure compensation even during shooting, via either command dial.

Auto Exposure Bracketing

The F100 makes it easy to perform exposure bracketing of two or three frames in 1/3 to 1 EV steps with all exposure modes including Manual. You can select bracketing with overexposure or underexposure only, too. For flash photography, the flash output level also varies. Also, Custom Setting #11 allows bracketing for either background exposure or flash exposure for flash photography — a feature that only Nikon provides.

All-mode depth-of-field preview button

When you use a lens with an automatic diaphragm, such as an AF Nikkor or AI-type Nikkor lens, the viewfinder image is set to maximum aperture. Pressing the depth-of-field preview button stops the lens down electrically to the aperture set in any exposure mode. This lets you examine the zone of sharpest focus before shooting.

Auto Exposure Bracketing

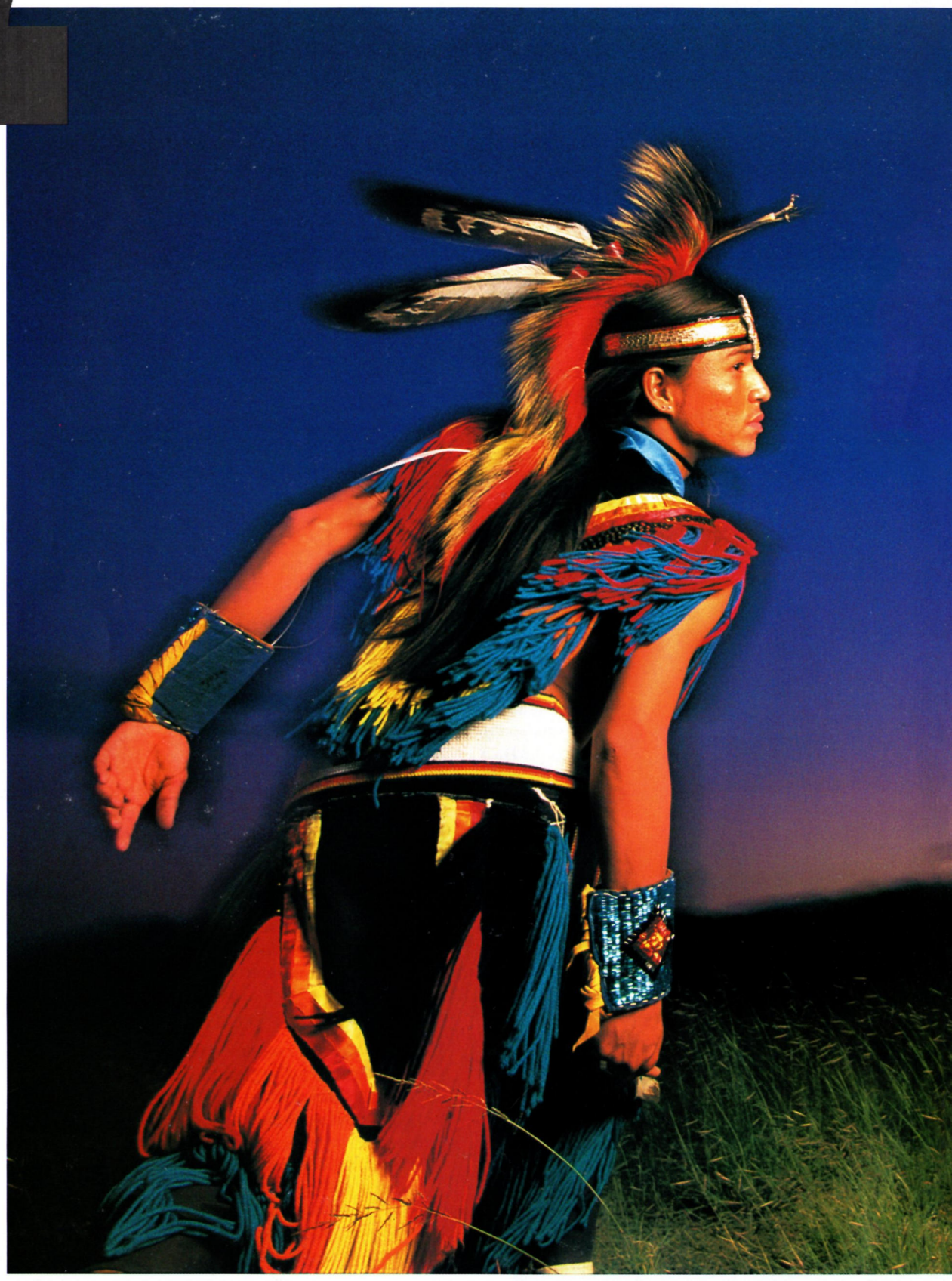
Original value

–2/3 EV

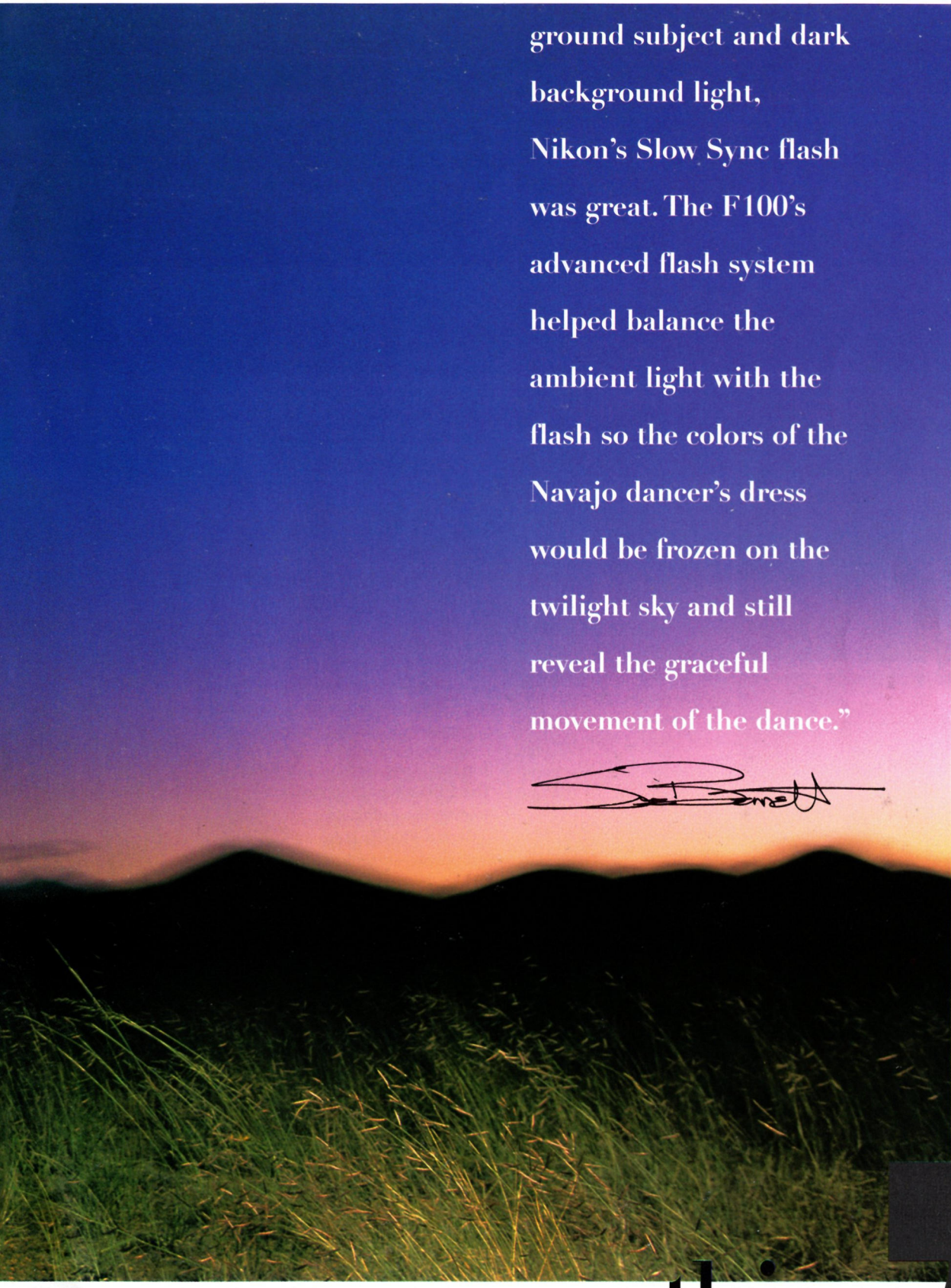
+2/3 EV

Custom Settings for exposure control (See P. 22 for details)

- #2: Changes EV steps for exposure control in 1/2 or 1 EV steps
- #3: Changes bracketing order: under, original value, over
- #11: Bracket either the background exposure or flash exposure for flash photography
- #12: Switches the functions of the two Command Dials
- #13: Use either command dial for exposure compensation settings in P, S and A modes.
- #22: Conduct aperture selection via the lens' aperture ring instead of the Sub-Command Dial.



F100 flash control



"With this type of motion, a colorful foreground subject and dark background light, Nikon's Slow Sync flash was great. The F100's advanced flash system helped balance the ambient light with the flash so the colors of the Navajo dancer's dress would be frozen on the twilight sky and still reveal the graceful movement of the dance."

Sue Bennett

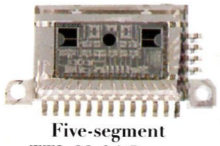
© Sue Bennett

performance lets you do this."

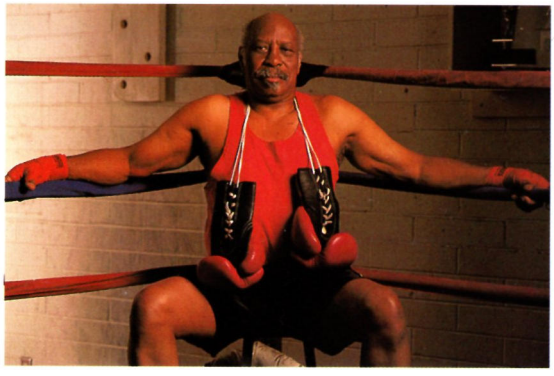
Changing how professionals use flash

The intelligent flash system

Nikon's Automatic Balanced Fill-Flash system works perfectly with Dynamic Autofocus and 3D Matrix Metering in terms of importance. In fact, Nikon's Fill-Flash system works perfectly with all F100 exposure modes, exposure compensation techniques, and exposure bracketing as well. It works realtime under demanding conditions for action photography, in super-bright light and in the dim light of dawn and dusk. It works up close and at great distances, and can produce astounding exposures even when you're shooting very dark or very bright subjects. Nikon Fill-Flash technique is one of the great forward-looking innovations of the 90's. Since a professional told us, "If I can discern that I used Fill-Flash, I've failed", we made Fill-Flash control sensitive to delicate conditions, and provided opportunities for you to fine-tune its operation. Since those early days, with the help of much professional guidance, Nikon has improved and expanded the system's performance so that it can emit blasts of light, finely controlled nuanced illumination, and every level of light in between. That lighting possibilities are endless is no reason for you to lose control, if you use Nikon and your creative eye to make great pictures.



Five-segment TTL Multi Sensor



In this scene (right), the F100 ignores left top area for TTL flash control according to the result of the Monitor Pre-flash.

3D Multi-Sensor Balanced Fill-Flash

Exclusive five-segment TTL Multi Sensor

One of the major reasons why the F100's flash system stands above others is Nikon's sophisticated five-segment TTL Multi Sensor. It precisely monitors flash output using a logical segmentation pattern that conforms to classic rules of composition. The five segments enable the system to optimize exposure control, even after the composition has changed and the subject is no longer at the original focus sensor point. Nikon's five-segment sensor covers the entire frame, providing better flash exposure for a wider range of compositions. This sensor also works in manual as well as autofocus modes.

Monitor Pre-flash — sophisticated analysis for flash shooting

Monitor Pre-flash is a Speedlight feature that fires a series of test flashes so the camera can "see" and analyze the scene before shooting the picture.

It works like this: the Nikon SB-28 (or SB-27) Speedlight fires imperceptible Monitor pre-flashes just after the mirror goes up, but before the shutter opens. When the pre-flashes reach the subject, they reflect back to the camera's TTL Multi Sensor. The camera's CPU uses the reflected light to determine in which of the TTL Multi Sensor's five segments the subject is located, in accordance with the selected aperture value and distance information from the D-type AF Nikkor lens in use. The computer thereby instantly and seamlessly determines which TTL Multi Sensor segments to use.

For example, if some segments indicate an extremely low amount of reflected light, the computer judges that there is a distant background and that the main subject is not in these areas. These segments are then ignored for the main flash output control. The computer even informs the system about the subject's reflectance, achieving a level of sophistication unmatched in flash photography.

3D Multi-Sensor Balanced Fill-Flash versatility

The F100's 3D Multi-Sensor Balanced Fill-Flash works with the camera's 3D Matrix and Center-Weighted meters. You can also use it with each of the F100's exposure control modes: P (Programmed Auto), S (Shutter-Priority Auto), A (Aperture-Priority Auto) and Manual.

3D Multi-Sensor Balanced Fill-Flash even works in conjunction with other operations, including exposure compensation, exposure bracketing, and Flexible Program. This versatility gives you optimal creative freedom plus the benefit of full automatic flash operation.

Top flash sync speed of 1/250 sec.

The F100 offers a top flash sync speed of 1/250 sec., so you can use Automatic Balanced Fill-Flash even with fast-moving subjects. A wider choice of apertures offers more creative control, and lets you shoot over a wider range of ambient light conditions. By expanding control and picture-taking opportunities, you gain potential to make a great picture.

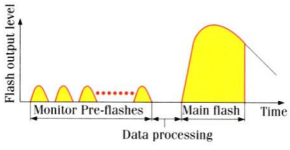
Slow Sync

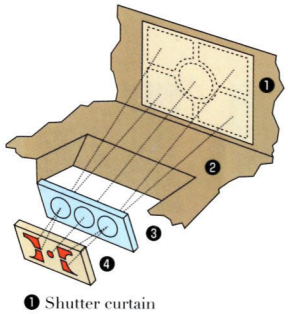
This feature lets you take flash photos with slower shutter speeds. Slow Sync extends the automatically controlled shutter speed range in the P and A modes (normally controlled between 1/250 sec. and 1/60 sec.) to the full range of available shutter speeds from 1/250 sec. to 30 sec.

Rear-Curtain Sync

The F100's Rear-Curtain Sync setting allows all Nikon TTL Speedlights to operate with Rear-Curtain Sync. With this

Monitor Pre-flash





1. Shutter curtain
2. Base portion of mirror box
3. Condenser lens array
4. TTL Multi Sensor

function, the flash fires just before the second (or rear) curtain of the shutter begins to move, unlike Normal Sync which fires the flash at the beginning of the exposure. This technique is especially effective using slow shutter speeds. It turns ambient light into a flowing trail of light that appears to follow the flash-illuminated subject in motion.

Note: Slow Sync is automatically selected when Rear-Curtain Sync is set in the Programmed Auto or Aperture-Priority Auto exposure modes.

Red-Eye Reduction

Before the shutter is released, the SB-28's or SB-27's Red-Eye Reduction lamp lights up for about one second. This contracts the pupils of the subject's eyes, thus reducing the appearance of red-eye. This mode can be used with Slow Sync.

FP High-Speed Sync

You can perform flash synchronization with high shutter speeds from 1/250 to 1/4000 sec. when you set the Nikon SB-28 or SB-26 to manual FP mode. This means you can make Fill-Flash pictures even in bright daylight, and still maintain wide aperture settings for expanded control of depth of field.

Nikon Speedlights SB-28 and SB-27

Nikon recommends two high-performance Speedlights for your F100. The most sophisticated one, the SB-28 Speedlight, boasts a powerful guide number of 164 when the zoom head is set at 85mm or 118 at 35mm (ISO 100, ft.). It features Monitor Pre-Flash, Repeating Flash for dramatic strobe effects and FP High-Speed Sync, which enables the use of a shallow depth of field in bright daylight. Plus, the built-in AF-assist illuminator provides autofocus capability even in total darkness. You can also tilt and rotate the flash head for creative control of bounce flash photography.

As for flash coverage, the SB-28 automatically adjusts for any focal length from 24 to 85mm. Also, the built-in wide flash adapter extends coverage to 18mm or 20mm.

Slow Sync

Flash output level compensation and manual flash control are possible, as well. There's even a built-in bounce card to produce catchlight effects.

The compact, convenient SB-27 offers a guide number of 98 (ISO 100, ft.; zoom head set at 35mm), Monitor Pre-Flash, AF-assist illuminator, automatic zoom flash covering 24mm to 50mm, built-in diffuser card and bounce flash adapter. The SB-27 is the ideal light source that can go everywhere.

Power Bracket Unit SK-6

The SK-6 lets you use the SB-28 as a grip-type flash and enables remote-flash capability. Used as an external power source, in combination with the Speedlight's own power source, this unit reduces the minimum recycling time by about half and doubles the total number of flashes available.

Off-camera TTL multiple flash

TTL Multi-Flash System

TTL Remote Cords (SC-17/SC-18/SC-19)

The TTL Remote Cord SC-17 comes with two multiple flash terminals, making off-camera TTL flash control easy. TTL Multi-Flash Sync Cord SC-18/SC-19 connects TTL flash units to each other through the TTL Multi-Flash Adapter AS-10 or TTL Remote Cord SC-17 for multi-flash operation.

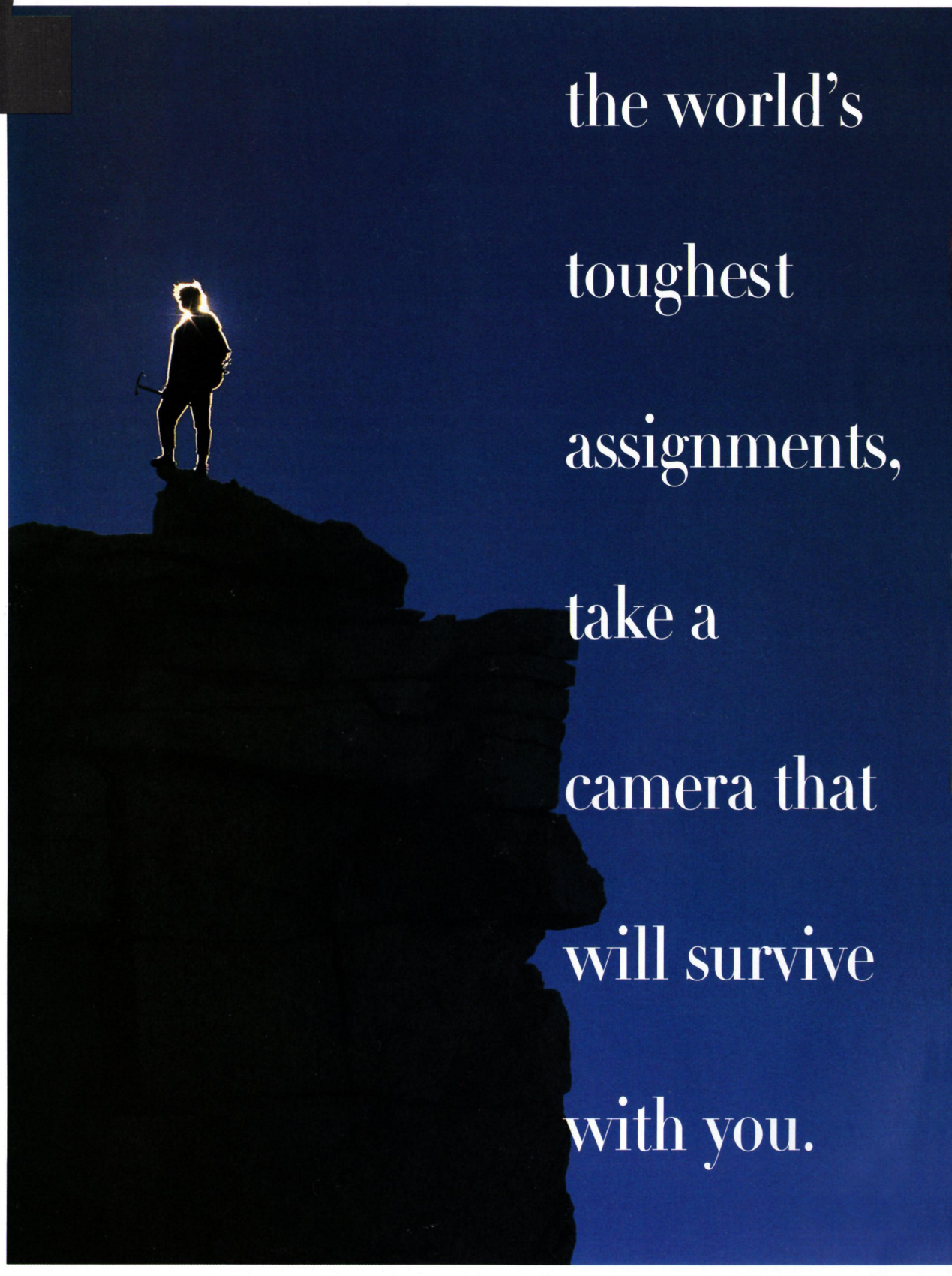
Wireless Slave Flash Controller SU-4

When connected to one of the Nikon Speedlights, the SU-4 enables wireless TTL multiple flash control, while using another Nikon Speedlight attached to the F100 as a master unit.

Note: You must cancel the Monitor Pre-Flash before using the SU-4 for wireless slave flash operation.

Custom settings for flash control (See P. 22 for details)

#3: Change bracketing order: Under, original value, over
#11: Bracket either the background exposure or flash exposure for flash photography.



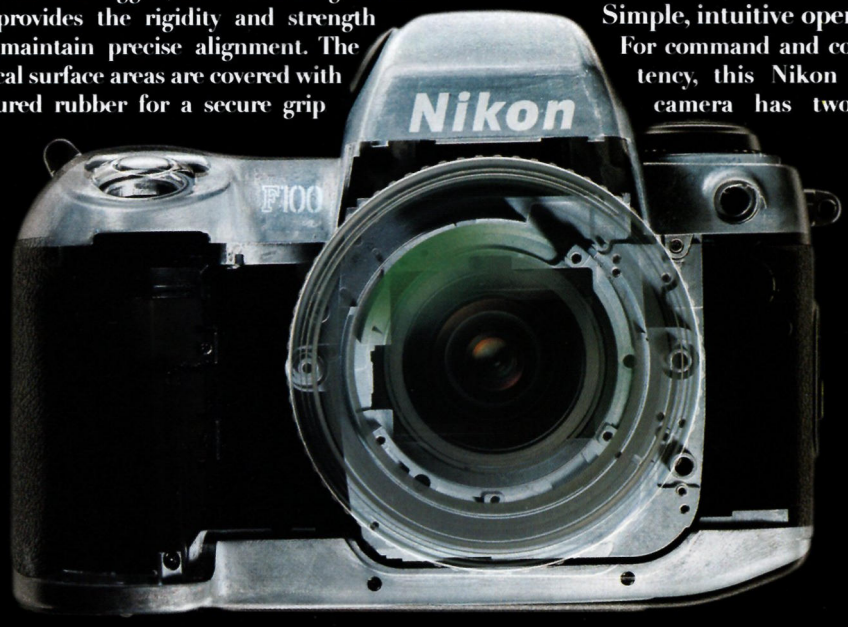
© Galen Rowell

Put the F100 in your hand for a greater feel of confidence

Long renowned for exceptional dependability, Nikon SLRs are built to take just about anything the world, or a photographer, throws at them. The F100 was designed to live up to this hard-nosed heritage and endure — whether you're shooting in a tropical rainforest, on an arctic ice floe or anywhere in between.

Durable metal body construction

The F100's front body and top and bottom covers are constructed of a rugged, armor-like magnesium alloy that provides the rigidity and strength needed to maintain precise alignment. The F100's critical surface areas are covered with tough, textured rubber for a secure grip and protection against impacts and harsh environments. The F100 has undergone rigorous testing to assure reliable performance under torturous professional conditions. Nikon engineers subjected the camera to extreme-temperature, drop and vibration, and a barrage of other tests to assure high reliability in real-world use. Moreover, the F100's durable shutter has passed Nikon's in-house 100,000 cycle test, and strategically placed O-rings provide resistance against dust and drops of water.



Floating mechanism for silent operation

The F100 features specially crafted mechanisms to ensure quick, precise, whisper-quiet movement. Its new quick-return mirror is designed to reduce mirror bounce and vibration. Coreless motors and gears are configured in a floating-type design so they are quieter, too. Their shock-absorber-like rubber-armored construction minimizes internally induced vibration. As for swiftness, the mirror moves quickly enough to keep up with other high-speed operations, like motorized fast framing and autofocusing.

Coreless motors

The F100's shutter charge, film winding, rewinding and lens drive motors are all coreless. Conventional cored motors demand a great degree of inertia to rotate, but coreless motors don't. The result: greater system power, minimal power consumption, smoother motor rotation, reduced vibration and electric noise, and, very importantly, quick response. It all ensures that drive operation is extremely smooth and fast.

Simple, intuitive operation

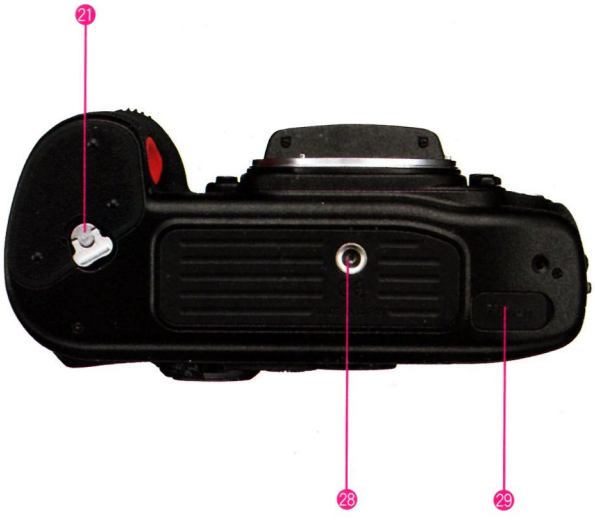
For command and control consistency, this Nikon professional camera has two Command Dials and a focus area selector that provide access to most features. Use the Main-Command Dial to select shutter speeds and exposure modes. The Sub-Command Dial is primarily for aperture control. A quick flick of the thumb operates the focus area selector on the back of the camera. You can even lock selected controls to prevent inadvertent switching.

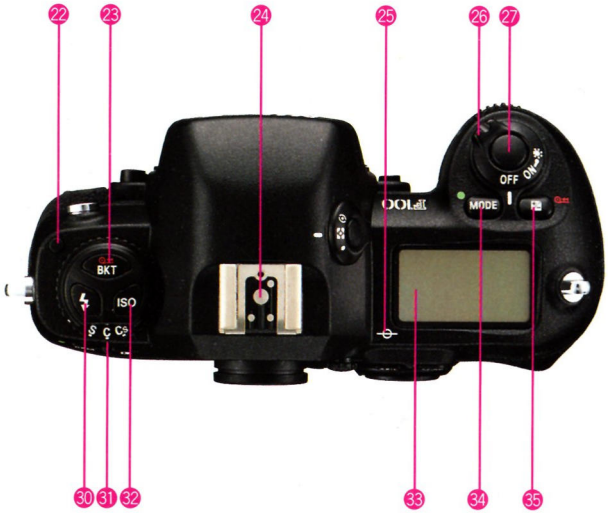
Multiple power sources

The F100 accepts four widely available LR6 (AA-type alkaline) or FR6 (AA-type lithium) batteries. The optional MS-13 battery holder allows the F100 to operate with just two CR-123A lithium batteries. This ensures optimal performance at low temperatures, and makes the camera lighter overall. Multi-Power High Speed Battery Pack MB-15 (also optional) accepts six LR6 or FR6 batteries. You can also run the camera with Ni-MH battery MN-15 in conjunction with the MB-15.

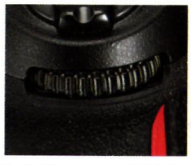
Nikon F100

Nomenclature/Controls





Main-Command Dial
Use this to select the shutter speed when using Shutter-Priority Auto or Manual, or to access Flexible Program and a range of other camera settings.

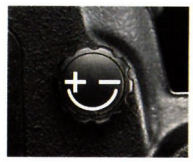


Sub-Command Dial
Allows you to select aperture with Aperture-Priority Auto or Manual. Custom Setting #12 lets you switch the functions of the two Command Dials.

AE-L /AF-L Button
Simultaneously locks both exposure and focus. Use Custom Setting #21 when you want to lock exposure or focus only.

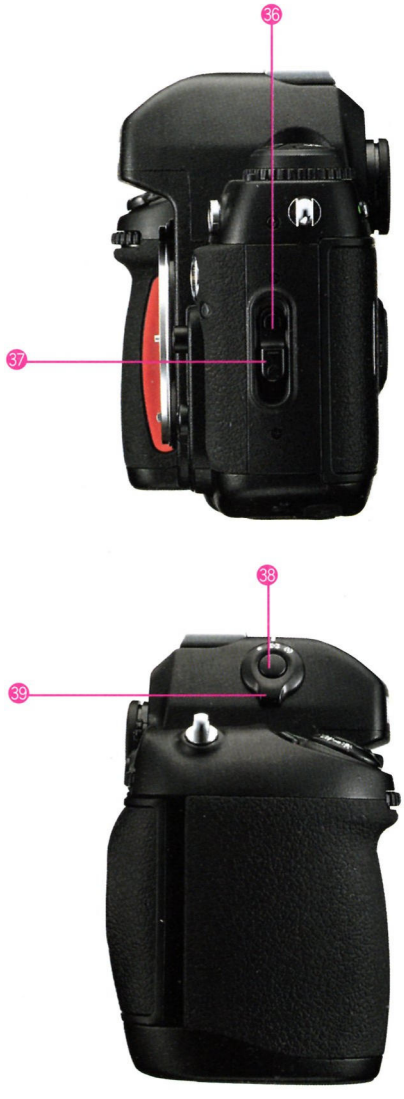
AF Start Button
You can activate AF operation by pressing this button or the shutter release button. This button works full time, so there's no need to use a custom setting to activate it.

Sync Terminal
Accepts all standard PC-type plug-in flash sync cords.



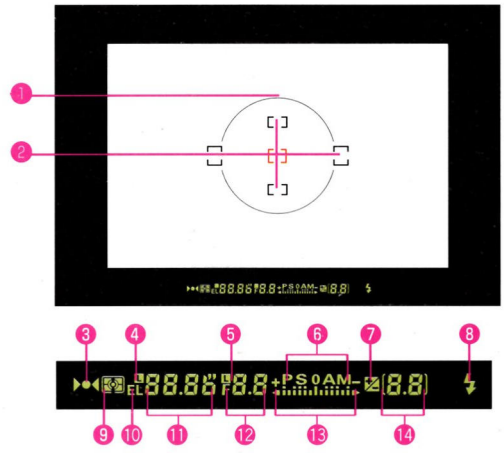
Diopter Adjustment
Enables near- or far-sighted photographers to adjust the eyepiece diopter from -3 to +1.

AF Area Mode Selector
Lets you choose Dynamic AF or Single Area-AF mode.



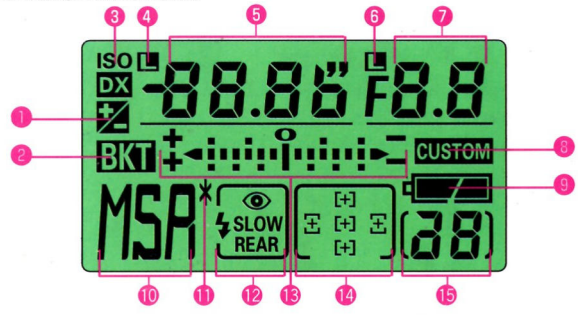
1. Sub-Command Dial
2. Depth-of-field preview button
3. Lens release button
4. Sync terminal
5. Self-timer indicator LED
6. Camera strap eyelet
7. Custom Setting button
8. Shutter speed/aperture lock button
9. Viewfinder eyepiece
10. Diopter adjustment knob
11. AE-L/AF-L (Auto Exposure/ Autofocus Lock) button
12. AF start (AF-ON) button
13. Main-Command Dial
14. Camera strap eyelet
15. Focus mode selector
16. 10-pin remote terminal
17. Film confirmation window
18. AF area mode selector
19. Focus area selector
20. Focus area selector lock lever
21. Battery holder release knob
22. Film advance mode selector lock release
23. Auto Exposure/Flash Exposure Bracketing (Film rewind) button
24. Accessory shoe
25. Film plane indicator
26. Power switch
27. Shutter release button
28. Tripod socket
29. Coupling contacts cover (for Multi-Power High Speed Battery Pack MB-15)
30. Flash sync mode button
31. Film advance mode selector
32. ISO film speed button
33. LCD panel
34. Exposure mode button
35. Exposure compensation button
36. Camera back lock release
37. Camera back lock release lever
38. Metering system selector lock release
39. Metering system selector

Viewfinder Information



1. 12mm-dia. reference circle for Center-Weighted Metering area
2. Focus brackets (focus area)/ Spot Metering (4mm ⌀) area
3. Focus indicators
4. Shutter speed lock indicator
5. Aperture lock indicator
6. Exposure mode
7. Exposure compensation
8. Flash ready-light
9. Metering system
10. AE-L (Auto Exposure Lock)
11. Shutter speed
12. Aperture
13. Electronic analog exposure display
14. Frame counter/ Exposure compensation value

LCD Panel Indications



1. Exposure compensation
2. Auto Exposure/Flash Exposure Bracketing
3. Film speed/DX indication
4. Shutter speed lock
5. Shutter speed
6. Aperture lock
7. Aperture
8. Custom Setting
9. Battery power
10. Exposure mode
11. Flexible Program
12. Flash sync mode
13. Electronic analog exposure display
14. Focus area
15. Frame counter

Manual ISO Film Speed Setting
You can select the film speed manually from ISO 6 to 6400 in 1/3 steps. The LCD shows you the setting. DX automatic operation is also available.

10-Pin Remote Terminal
Accepts Personal Computer Connecting Cord MC-33, Remote Cord MC-20 or MC-30, Modulite Remote Control Set ML-3 and other accessories.

Two-Button Reset
When you press the Exposure Mode MODE and Custom Setting Menu CSM buttons simultaneously for over two seconds, this returns all the F100's settings to its default settings, except for any Custom Settings that have been chosen.

All-mode Depth-of-field Preview Button
Lets you examine the zone of sharp focus before shooting.

Focus Area Selector
Lets you select focus area. A lock lever is provided.

Camera Back Lock Release
Easy to operate and reach, even when the flash bracket is attached.

Top Deck LCD Panel
The easy-to-view LCD panel gives you at-a-glance access to vital information. It can be illuminated for viewing in dim light.

The Nikon System
Nikkor Lenses

Comprehensive lineup, superior optics and performance

The F100 features the time-tested Nikon F lens mount — and that means you have access to the complete lineup of Nikon lenses, including a wide range of non-AF Nikkor lenses. Nikkor lens performance makes it easy to see why so many professionals depend on these lenses for outstanding results.

The extensive Nikkor range includes Micro, Defocus Control, Perspective Control, Super Wide and Telephoto Nikkor lenses, as well as AF-S Nikkors featuring lens-integrated autofocus drive control. With autofocus or manual operation, you get consistently sharp results, whichever lens you use.

Optimal lens compatibility — as only Nikon can offer

When designing the F100, Nikon placed priority on ensuring its compatibility with all current Nikkor lenses. Once an AF Nikkor lens is attached, the F100 automatically determines which one it is, and sets itself for optimal performance. This is a feature that only Nikon provides.

Innovative AF-S Nikkor Lenses

For the ultimate in quiet, ultra-fast autofocus operation, try Nikon's AF-S Nikkors with Built-in Silent Wave Motors. Thanks to Nikon's Internal Focusing (IF) technology, the lens barrel doesn't extend, making it easy for you to keep the camera balanced. Other Nikon inventions are performance-proven Extra-low Dispersion (ED) glass and Nikon Integrated Coating, which help to assure superb optical quality. Each lens offers focus range limiters and Nikon's exclusive M/A mode.

AF-S Zoom-Nikkor 28-70mm f/2.8D ED-IF, equipped with a Silent Wave Motor, attached to a Nikon F100 with optional MB-15 Multi-Power High Speed Battery Pack.

© Bill Frakes

AF Nikkors
AF 20-35mm f/2.8D IF
AF 24-50mm f/3.3-4.5D
AF 24-120mm f/3.5-5.6D IF
AF-S 28-70mm f/2.8D ED-IF
AF 28-70mm f/3.5-4.5D
AF 28-80mm f/3.5-5.6D
AF 28-200mm f/3.5-5.6D IF
AF 28-105mm f/3.5-4.5D IF
AF 35-70mm f/2.8D
AF 35-80mm f/4-5.6D
AF 35-105mm f/3.5-4.5D IF
AF 70-210mm f/4-5.6D
AF 70-300mm f/4-5.6D ED
AF-S 80-200mm f/2.8D ED-IF
AF 80-200mm f/2.8D ED
AF 80-200mm f/4.5-5.6D
AF Fisheye 16mm f/2.8D
AF 18mm f/2.8D
AF 20mm f/2.8D
AF 24mm f/2.8D
AF 28mm f/1.4D
AF 28mm f/2.8D
AF 35mm f/2D
AF 50mm f/1.4D
AF 50mm f/1.8
AF 85mm f/1.4D IF
AF 85mm f/1.8D
AF DC 105mm f/2D
AF DC 135mm f/2D
AF 180mm f/2.8D ED-IF
AF 300mm f/4 ED-IF
AF-S 300mm f/2.8D ED-IF
AF-S 400mm f/2.8D ED-IF
AF-S 500mm f/4D ED-IF
AF-S 600mm f/4D ED-IF
AF-I Teleconverter TC-14E
AF-I Teleconverter TC-20E
AF Micro 60mm f/2.8D
AF Micro 105mm f/2.8D
AF Micro 200mm f/4D ED-IF
AF Micro 70-180mm f/4.5-5.6D ED
AI-P-type Nikkor
500mm f/4 P ED-IF
AI- and AI-S-type Nikkors
35-200mm f/3.5-4.5
50-300mm f/4.5 ED
15mm f/3.5
18mm f/3.5
24mm f/2
28mm f/2
35mm f/1.4
50mm f/1.2
85mm f/1.4
105mm f/1.8
105mm f/2.5
135mm f/2.8
200mm f/2 ED-IF
400mm f/2.8 ED-IF
400mm f/3.5 ED-IF
400mm f/5.6 ED-IF
600mm f/5.6 ED-IF
800mm f/5.6 ED-IF
Micro 200mm f/4 IF
UV 105mm f/4.5
Other Nikkors
Reflex 500mm f/8
Reflex 1000mm f/11
PC 28mm f/3.5
PC 35mm f/2.8

Lens Compatibility Chart (IX-Nikkor lenses cannot be used)

Lens	Focusing		Exposure Mode				Metering System		
	AF	Electronic Rangefinder	P mode	S mode	A mode	M mode	Matrix	Center-Weighted	Spot
AF-S & D-type AF Nikkors	✓	✓	✓	✓	✓[1]	✓[1]	✓[2]	✓	✓[3]
AF-I Teleconverters[4]	✓[5]	✓[5]	✓	✓	✓[1]	✓[1]	✓[2]	✓	✓[3]
Non-D-type AF Nikkors	✓	✓	✓	✓	✓[1]	✓[1]	✓	✓	✓[3]
AI-P-type Nikkor	—	✓	✓	✓	✓[1]	✓[1]	✓	✓	✓[3]
AI-type Nikkors	—	✓[6]	—	—	✓	✓	—	✓[7]	✓[7]
Reflex-Nikkors	—	—	—	—	✓[8]	✓[8]	—	✓	✓
PC-Nikkors	—	✓[9]	—	—	✓[10]	✓	—	✓[9]	✓[9]
AI-type Teleconverters	—	✓[5]	—	—	✓	✓	—	✓[11]	✓[11]
Bellows Focusing Attachment PB-6 [12]	—	✓[5]	—	—	✓	✓	—	✓[11]	✓[11]

✓ Compatible — Incompatible

1 Aperture can be selected via Sub-Command Dial.
2 3D Matrix Metering is selected.
3 Metering area corresponds to the selected focus area.
4 Compatible with AF-S and AF-I Nikkor lenses except AF-S 28-70mm f/2.8D ED-IF.
5 With maximum effective aperture of f/5.6 or faster.
6 With maximum aperture of f/5.6 or faster.
7 Exposure compensation may be necessary.
8 Aperture cannot be selected.
9 Without shift.
10 Exposure determined by presetting lens aperture. Exposure must also be determined before shifting; use AE-L/AF-L button before shifting.
11 Exposure compensation necessary depending on the lens in use.
12 Auto Extension Ring PK-11A, 12 or 13 is necessary.

The Nikon System
Versatile Accessories

Dedicated Accessories

Multi-Power High Speed Battery Pack MB-15
The ergonomically designed MB-15 provides an alternative shutter release button, an AF start button and command dials that make shooting vertical-format pictures much more comfortable. It runs on either six AA-size alkaline (LR6) or lithium (FR6) batteries or Ni-MH battery MN-15. The MB-15 boosts film advance speed from 4.5 to 5.0 fps — regardless of the type of batteries used.

Chargers for MN-15
The Ni-MH Battery Charger MH-15 recharges a discharged Ni-MH battery MN-15 fully in approx. 70 min. The Quick Charger EH-3 for the Nikon E3/E3s Digital Camera can also be used for the MN-15. (The MH-15 is further compatible with the Ni-MH Battery Pack EN-3 for the Nikon E3/E3s.)

Battery Holder MS-13
Accepts two CR-123A type lithium batteries.

Interchangeable Focusing Screens
Nikon F100 accepts Nikon's B-type advanced BriteView screen (supplied with the F100) and optional E-type screen with the grid pattern. Both screens are compatible with the superimpose function.

Data Back MF-29
Imprints selected date and time information within frame; your choice of Year/Month/Day, Month/Day/Year, Day/Hour/Minute — or No Imprint.

Camera Cases
The CF-57 will house the F100 plus standard AF 28-105mm f/3.5-4.5D IF or any smaller lens, and for larger lenses (up to AF 80-200mm f/4.5-5.6D) choose the CF-58.

Finder Accessories

Eyepiece Correction Lenses
Nine optional eyepiece correction lenses allow you to adjust the diopter beyond its standard range of -3 to +1.

Rubber Eyecup DK-6
Increases viewing comfort and prevents stray light from entering the viewfinder.

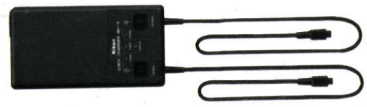
Right-Angle Viewing Attachment DR-4
This provides an upright, unreversed image with right-angle viewing. Individual eyesight adjustment possible. It's ideal for copy work.

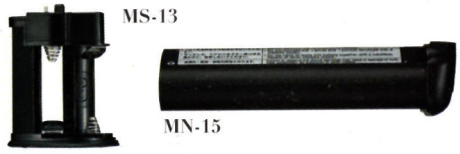
Eyepiece Magnifier DG-2
Provides 2x magnification of the central portion of the finder image. Eyesight adjustment is provided.

Eyepiece Adapter DK-7
Allows you to attach the DG-2 to the F100's finder eyepiece.

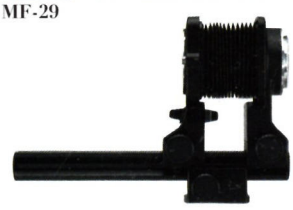
Close-Up Accessories

Auto Extension Rings PK-11A/12/13
Slides on and off your camera in seconds for a wide range of reproduction ratios.


MH-15



MF-29


PB-6

Close-Up Attachment Lenses

Nikon F100 connected to a personal computer

Bellows Attachment PB-6
Mounts between the F100 (with an Auto Extension Ring PK-11A, 12 or 13 attached) and the lens for close-up and macro photography. Optional accessories include PB-6E Extension Bellows, PB-6M Macro Copy Stand and PS-6 Slide Copying Adapter.

Macro Adapter Ring BR-2A
Enables lenses to be mounted in reverse for a relatively high reproduction ratio.

Focusing Stage PG-2
Simplifies close-up focusing when using a tripod-mounted camera.

Close-Up Attachment Lenses
Provides an easy way to try close-up photography. Seven kinds available — 0, 1, 2, 3T, 4T, 5T, 6T.

Remote Control Accessories

Modulite Remote Control Set ML-3
Provides infrared LED beam remote control for two separate channels to enable automatic camera operation from a distance of up to 26 ft.

Remote Cord MC-20 (2.6 ft.)
Enables remote firing of the F100 and setting of exposures up to 9 hrs. 59 min. 59 sec. long. The LCD tells you the exposure time.

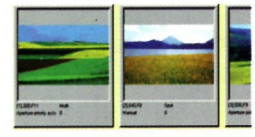
Remote Cord MC-30 (2.6 ft.)
Enables remote firing with a trigger-lock function.

Extension Cord MC-21 (9.8 ft.)
Available for 10-pin remote accessories.

Connecting Cord MC-23 (1.3 ft.)
Connects two F100 cameras for simultaneous shutter release.

Adapter Cord MC-25 (7.9 in.)
Enables the use of Remote Cord MC-12B, Radio Control Set MW-2 and Modulite Remote Control Set ML-2.

Personal Computer Link System



Nikon designed a computer link software package for the F100. AC-2WE Photo Secretary II for F100 links the camera with a Windows® 95, Windows® 98 or Windows® NT4.0 PC via the Personal Computer Connecting Cord MC-31/ MC-33. This software lets you adjust Custom Settings from a personal computer. You can also download shooting data stored on the F100*, and you can browse it alone or with corresponding images that you've scanned.

* Data downloading is also possible with the F5 and N90s.

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Nikon F100
Custom Settings

Using the Custom Settings feature, you can bypass the camera's default settings and create your own combination of functions. They are listed below.

#1: Auto film rewind at end of film roll
0: Disabled (default)
1: Activated

#2: EV steps for exposure control
3: 1/3 EV steps (default)
2: 1/2 EV steps
1: 1 EV steps

#3: Bracketing order
0: Original value, under, over (default)
1: Under, original value, over

#4: Autofocus activated when shutter release button is lightly pressed
0: Activated (default)
1: Disabled

#5: DX reading error warning
0: After film loading (default)
1: When the power switch is on

#6: Focus area selection
0: Normal selection (default)
1: Enables successive rotation of focus area selection: right to left (or vice versa) and top to bottom (or vice versa)

#7: AE lock when shutter release button is lightly pressed
0: Disabled (default)
1: Activated

#8: Auto film loading when camera back is closed
0: Disabled (default)
1: Enabled when power is on

#9: Dynamic AF mode in AF-S
0: Closest focus area is priority area (default)
1: Selected focus area is priority area

#10: Dynamic AF mode in AF-C
0: Selected focus area is priority area (default)
1: Closest focus area is priority area

#11: Auto Exposure/Flash Exposure Bracketing
AS: Both exposure value and flash output are shifted (default)
AE: Only exposure value is shifted
Sb: Only flash output is shifted

#12: Command Dial functions
0: Main-Command Dial for shutter speed; Sub-Command Dial for aperture setting (default)
1: Main-Command Dial for aperture setting; Sub-Command Dial for shutter speed

#13: Use either dial for exposure compensation settings in P, S and A mode
0: Disabled (default)
1: Activated

#14: Multiple exposure
0: Single shutter release operation (default)
1: Continuous shutter release operation

#15: Time delay for auto meter-switch-off
4: Four seconds
6: Six seconds (default)
8: Eight seconds
16: 16 seconds

#16: Self-timer duration
2: Two seconds
5: Five seconds
10: 10 seconds (default)
20: 20 seconds

#17: LCD illumination with auto meter-switch
0: Disabled (default)
1: Activated

#18: Data imprint on frame #0 (with MF-29)
0: Canceled (default)
1: Activated

#19: Aperture setting during zooming
0: Fixed (default)
1: Varies

#20: Shutter release indication via self-timer LED
0: Disabled (default)
1: Activated

#21: AE-L/AF-L button
0: AF AE simultaneous lock (default)
1: AE lock
2: AF lock
3: AE lock (Continues to lock until button is pressed again)

#22: Aperture selection
0: Via Sub-Command Dial (default)
1: Via lens' aperture ring

Nikon F100
Specification

Type of camera Integral-motor autofocus 35mm single-lens reflex with electronically controlled focal-plane shutter
Exposure modes P: Programmed Auto (Flexible Program possible); S: Shutter-Priority Auto; A: Aperture-Priority Auto; M: Manual
Picture format 24 x 36mm (standard 35mm film format)
Lens mount Nikon F mount (with AF coupling, AF contacts)
Lens D-type Nikkor: Autofocus and all functions possible
AF Nikkor other than D-type: All functions except 3D Matrix Metering possible
AI-P Nikkor: All functions except 3D Matrix Metering and autofocus possible
Non-CPU: Usable in Aperture-Priority Auto or Manual exposure mode, Center-Weighted or Spot Metering. Electronic Rangefinder usable with lens with maximum aperture of f/5.6 or faster
Viewfinder Fixed eye-level pentaprism, built-in diopter adjustment (–3 to +1 DP)
Eyepoint 21mm (at –1.0 DP)
Focusing screen B-type BriteView clear Matte screen III, interchangeable with optional E-type screen with grid
Viewfinder frame coverage Approx. 96%
Finder magnification Approx. 0.76x with 50mm lens set to infinity and –1.0 DP
Viewfinder information Focus indications, metering system, shutter speed lock, AE lock, shutter speed, aperture lock, aperture, exposure mode, electronic analog display, exposure compensation, frame counter/exposure compensation value, ready-light, five sets of focus brackets (area)
Reflex mirror Automatic, instant-return type
Lens aperture Instant-return type, with depth-of-field preview button
Autofocus TTL phase detection, Nikon Multi-CAM1300 autofocus module; Detection range: EV –1 to EV 19 (ISO 100, at normal temperature)
Lens servo Single Servo AF (**S**), Continuous Servo AF (**C**), Manual focus (**M**); Focus Tracking automatically activated in subject's status in Single Servo AF (**S**) or Continuous Servo AF (**C**)
Focus area One of five focus areas can be selected
AF Area mode Single Area AF and Dynamic AF (Dynamic AF Mode with Closest Subject Priority is available)
Focus lock Focus is locked by pressing AE-L/AF-L button or lightly pressing shutter release button in Single Servo AF
Metering system TTL full-aperture exposure metering system; three metering systems selectable (limitations with lens used): 3D Matrix Metering, Center-Weighted Metering (75% of the meter's sensitivity concentrated on the 12mm dia. circle) and Spot Metering (4mm dia. circle, approx. 1% of entire frame)
Metering range 3D Matrix Metering: EV 0-21; Center-Weighted Metering: EV 0-21; Spot Metering: EV 3-21 (at normal temperature, ISO 100, 50mm f/1.4 lens)
Exposure meter coupling CPU and AI combined
Exposure compensation Exposure compensated in

S

±5 EV range, in 1/3 steps
Auto Exposure Lock Detected exposure value locked by pressing AE-L button
Auto Exposure/Flash Exposure Bracketing Number of shots: two or three; compensation steps: 1/3, 1/2, 2/3 or 1 steps
Film speed setting DX or manual selectable (manual setting effective over DX detected film speed); Film speed range: DX: ISO25-5000, Manual: ISO 6-6400 in 1/3 steps
Shutter Electronically controlled vertical-travel focal-plane shutter
Shutter speeds In P, A: 30 to 1/8000 sec.; In S: 30 to 1/8000 sec. (in 1/3 steps); In M: 30 to 1/8000 sec. (in 1/3 steps), Bulb
Sync contact X-contact only; flash synchronization up to 1/250 sec.
Flash control Controlled by five-segment TTL Multi Sensor; Automatic Balanced Fill-Flash with TTL Multi Sensor: 3D Multi-Sensor Balanced Fill-Flash

compatible with SB-28, 27 and D-type AF Nikkor lens; Multi-Sensor Balanced Fill-Flash with a Speedlight such as SB-28, 27, 23, 22s and AF Nikkor other than D-type lens; Center-Weighted Flash: With Speedlights SB-28, 27, 23, 22s and non-CPU Nikkor lens with Center-Weighted Metering; Film speed range in TTL auto flash: ISO 25-1000
Flash sync mode Front-Curtain Sync (normal sync), Red-Eye Reduction, Red-Eye Reduction with Slow Sync, Slow Sync, Rear-Curtain Sync
Ready-light Lights up when flash fully charged with Speedlights SB-28, 27, 23, etc.; blinks (3 sec. after flash) for full output warning
Accessory shoe Standard ISO-type hot-shoe contact (sync contact, ready-light contact, TTL auto flash contact, monitor contact, GND), safety lock provided
Sync terminal Standard JIS terminal, lock screw provided
Self-timer Electronically controlled; timer duration: 10 sec.

Depth-of-field preview button Stop-down lens aperture by pressing depth-of-field button
Film loading Film automatically advances to first frame when shutter release button is pressed once (shutter and reflection mirror not activated)
Film advance Automatic advance with built-in motor; **S**, **C**, **Cs** selectable
Film advance speed (with Continuous Servo AF, Manual exposure mode, shutter speed 1/250 sec. or faster, 36-exposure film)
S: One frame advance
C: Continuous shooting; Approx. 4.5 fps (AA-type alkaline batteries); Approx. 5 fps (with Multi-Power High Speed Battery Pack MB-15)
Cs: Continuous silent-low-speed shooting; Approx. 3 fps (AA-type alkaline batteries); Approx. 3 fps (with Multi-Power High Speed Battery Pack MB-15)
Film rewind Automatic rewind with built-in motor (activate by pressing two film rewind buttons); Rewind speed with 36-exposure film: **C**: approx. 9 sec., **Cs**: approx. 19 sec. with 36-exposure film (AA-type alkaline batteries)
Multiple exposure Activated using film advance mode dial
LCD panel information (**illuminator built-in**) Film speed, DX indication, shutter speed lock, shutter speed, aperture lock, aperture, exposure compensation, Auto Exposure/Flash Exposure Bracketing, electronic analog display, Custom, exposure mode, Flexible Program, flash sync mode, AF area mode, focus area, battery power, frame counter
Camera back Hinged back (removable); AF area mode selector, focus area selector; changeable with Data Back MF-29
10-pin remote terminal Equipped
Power source AA-type battery holder MS-12 provided (four alkaline or lithium batteries); optional 3V lithium battery holder MS-13 available (for two CR123A or DL123A batteries); optional Multi-Power High Speed Battery Pack MB-15 and AA-type battery holder MS-15 are also available (for six alkaline or lithium batteries, or optional Ni-MH battery MN-15)
Power switch Power ON, OFF and LCD panel illuminator on position
Exposure meter Auto meter shut-off 6 sec. after power turned on if no operations are performed; activated by lightly pressing shutter release button or pressing AF start button after power is turned on
Battery power confirmation for sufficient power; indicates batteries are nearing exhaustion; blinking indicates batteries are just about exhausted; no indication/symbol appears when batteries are completely exhausted or improperly installed
Usable number of film rolls (**Approx.**)

With 36-exposure film, for Continuous Servo autofocus operation using an AF Zoom-Nikkor 28-70mm f/3.5-4.5D lens, in single-frame shooting, covering the full range from infinity (∞) to the closest distance and back to infinity (∞) before each shot, without intervals between shots, with a shutter speed of 1/250 sec. or faster.

Battery / Temperature	AA-type alkaline	AA-type lithium	3V lithium (with MS-13)
68°F	70	150	60
14°F	4	50	40

With MB-15

Battery / Temperature	AA-type alkaline	AA-type lithium	Ni-MH (MN-15)
68°F	100	180	90
14°F	12	90	50

With 36-exposure film, for Continuous Servo autofocus operation using an AF Zoom-Nikkor 80-200mm f/2.8D ED lens, in single-frame shooting, lightly pressing the shutter release button for 8 sec. and covering the full range from infinity (∞) to the closest distance and back to infinity (∞) before each shot, with a shutter speed of 1/250 sec. or faster. After the exposure meter automatically turns off (1 sec.), the same operation follows for the next shot.

Battery / Temperature	AA-type alkaline	AA-type lithium	3V lithium (with MS-13)
68°F	25	40	20
14°F	1	20	10

With MB-15

Battery / Temperature	AA-type alkaline	AA-type lithium	Ni-MH (MN-15)
68°F	35	60	20
14°F	3	25	15

Two-Button Reset Pressing the CSM and MODE buttons simultaneously and holding them for more than 2 sec. resets various settings to their original default settings (with some exceptions)
Dimensions (**W x H x D**) Approx. 6.1 x 4.5 x 2.6 in.
Weight (**without batteries**) Approx. 27.7 oz.

All specifications apply when fresh AA-type alkaline batteries are used at normal temperature (68°F). Specifications and design are subject to change without any notice or obligation on the part of the manufacturer.

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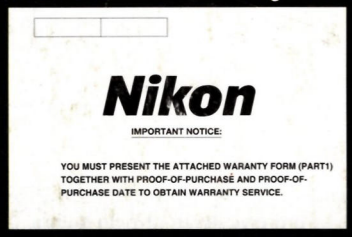
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